

## ABSTRACT

The present invention is directed to an apparatus and a method for brazing work pieces together and which eliminates the disadvantages associated with conventional apparatus currently in use for brazing parts together. In a preferred embodiment of the invention, the brazing apparatus comprises an electric connector for connecting to an electrical power source; at least two electrodes adapted for attaching to and providing electrical contact with the work pieces to be brazed together; means for converting the electric power being directed from the electrical power source into a low voltage, high current electric flow directed to the work pieces; and a control system for controlling the brazing operation. The brazing apparatus further comprises means for automatically controlling the time duration of the brazing operation and means for monitoring and automatically controlling the brazing temperature being generated along the interface between the work pieces.